

MALACOLOGY.—*The gross anatomy and occurrence in Puerto Rico of the pelecypod Yoldia perprotracta.* GERMAINE L. WARMKE, Mayagüez, Puerto Rico, and R. T. ABBOTT, U. S. National Museum. (Communicated by Harald A. Rehder.)

Yoldia (Adrana) perprotracta Dall, hitherto believed to be extinct, was first collected by D. F. MacDonald near Mount Hope, Canal Zone, and described by Dall (1912, p. 1) as a new species from the Pleistocene. This species was also reported as a Pleistocene fossil from the oyster shell layers of the Black Swamp near Mount Hope by Brown and Pilsbry (1913, p. 496).

Live specimens of *Yoldia perprotracta* were collected by the senior author on August 15, 1951 while dredging between the city of Mayagüez and the mouth of the Añasco River, Puerto Rico. Many specimens came up in from 10 to 25 feet of water from a muddy bottom. Since then, scores of live specimens have been dredged from three other localities on the west coast of the island (Punta Arenas; Boquerón; and off Piñero Island).

Our Recent specimens closely match those from the type lot (holotype: U.S.N.M. no. 214350; paratypes: 605551). The type was figured by Dall (1925, pl. 18, fig. 3) and described (Dall, 1912, p. 1) as thin, elongated, inequilateral, rather bluntly pointed at the posterior, and more rounded at the anterior end; beaks depressed and inconspicuous. Exterior polished, showing regular concentric striae with wider interspaces; hinge with about 38 anterior and 48 posterior teeth separated by a small, subtriangular pit. Length 29 mm., height at the beaks 8, maximum diameter 5 mm. In

Recent specimens, the number of posterior teeth ranges in number from 45 to 51, anterior teeth from 31 to 34. Fossil paratypes have from 44 to 51 posteriors, 35 to 38 anteriors (5 specimens).



FIG. 2.—*Yoldia (Adrana) perprotracta* Dall (1 inch), Mayagüez, Puerto Rico.

The general gross anatomy of *Yoldia perprotracta* is very similar to that described for *Yoldia limatula* Say (Drew, 1899a and 1899b). Our preserved specimens did not show the presence of a siphonal tentacle. The postero-ventral margins of the mantle bear a series of from 30 to 37 small, swollen papillae, each of which bears three tiny, fleshy protuberances. The papillae and protuberances are largest at the posterior end. The palp-appendages (used as food gatherers) appear to be proportionately larger than those found in *Y. limatula*. The gills are typical for the genus and contain about 90 closely packed lamellae.

LITERATURE CITED

BROWN, A. P., and PILSBRY, H. A. *Two collections of Pleistocene fossils from the Isthmus of Panama.* Proc. Acad. Nat. Sci. Philadelphia 1913: 493-500.

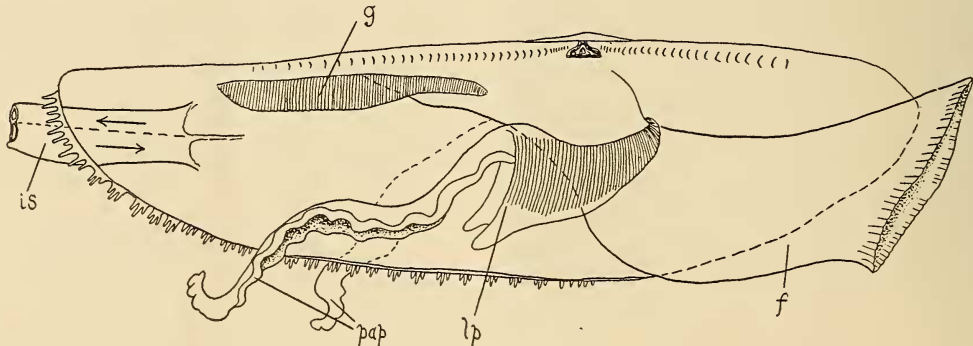


FIG. 1.—Main anatomical features of *Yoldia (Adrana) perprotracta* Dall: f, Foot; g, gills; is, inhalant siphon; lp, right labial palp; pap, palp-appendages.

DALL, W. H. *New species of fossil shells from Panama and Costa Rica*. Smithsonian Misc. Coll. **59**(2): 1-10. 1912.

—. *Illustrations of unfigured types of shells in the collection of the United States National Museum*. Proc. U. S. Nat. Mus. **66**(2554): 1-41. pls. 1-36. 1925.

DREW, G. A. *Yoldia limatula*. Mem. Biol. Lab. Johns Hopkins Univ. **4**(3): 1-37, pls. 1-5, 1899a.

—. *Some observations on the habits, anatomy and embryology of members of the Protobranchia*. Anat. Anz. **15**(24): 493-519. 1899b.

PROCEEDINGS OF THE ACADEMY AND AFFILIATED SOCIETIES

55th ANNUAL MEETING

The 55th Annual Meeting, concurrently with the 360th monthly meeting of the Academy, was held as a dinner meeting in the ballroom of Hotel 2400 on the evening of January 15, 1953. President WALTER RAMBERG presided.

After the dinner President Ramberg called the meeting to order at 8:15 P.M. No changes were suggested for the minutes of the 54th Annual Meeting as published in the Journal **42**(6): 198-204, June 1952.

Excerpts from the following reports by officers and committee chairmen were presented:

REPORT OF THE SECRETARY

During the Academy year—January 17, 1952, to January 15, 1953—62 persons were elected to regular membership, including 59 resident and 3 nonresident (62 were elected last year). Of these, 52 resident and 3 nonresident have as of this date qualified for membership. Three resident members elected in the preceding Academy year qualified during the year just ended. Two elected to membership on January 12, 1953, have not yet been notified of their election. The new members were distributed among the various sciences as follows: Physics 11; chemistry 9; entomology 5; 4 each in zoology and anthropology; biology 3; 2 each in astronomy, astrophysics, bacteriology, biochemistry, geology, mathematics, medicine, physiology, and psychology; and 1 each in aeronautics, archeology, anatomy, botany, histology, philosophy, pathology, and mycology. Eight members, having held membership for over 10 years and having retired from the gainful practice of their professions, were placed on the retired list entitled to privileges of active membership without further payment of dues. Nine resident and 2 nonresident members resigned in good standing. No members were dropped for nonpayment of dues, as the list has not been reviewed by the Board.

Deaths in 1952 of 21 members were reported to the Secretary. as follows:

- MALCOLM M. HARING, on January 1
- T. WAYLAND VAUGHN, on January 16
- WALTER T. SWINGLE, on January 19
- WILLIAM S. EICHELBERGER, on February 3
- CHARLES E. CHAMBLISS, on February 10
- JOSEPH S. CALDWELL, on February 18
- GEORGE W. MCCOY, on April 2
- JAMES L. PETERS, on April 19
- RAYMOND A. KELSER, on July 15
- EUGENE C. AUCHTER, on August 12
- IDA A. BENGTON, on August 15
- PAUL F. NEMENYI, on August 29
- ALBERT E. MCPHERSON, on September 6
- EDWARD F. WENDT, on September 30
- HAROLD E. MCCOMB, on October 11
- PAUL A. NEAL, on October 13
- HARVEY N. DAVIS, on December 3
- CHARLES L. G. ANDERSON, on December 10
- MIRIAM L. BOMHARD, on December 16
- ARTHUR B. LAMB, on December 18
- M. C. MERRILL, on December 22

On January 15, 1953, the status of membership was as follows:

	Regular	Retired	Hono- rary	Patron	Totals
Resident.....	626	55	0	0	681
Nonresident.....	186	36	10	0	232
Total.....	812	91	10	0	913

The net changes in membership during the past year are as follows:

	Regular	Retired	Hono- rary	Patron	Totals
Resident.....	+37	+1	0	0	+38
Nonresident.....	+4	-3	0	0	+1

During the Academy year 1952 the Board of Managers held 8 meetings, with an average attendance of 17. The following summarizes incidental items, not covered elsewhere in this annual report, pertaining to activities of the Academy and its Board of Managers.

A Committee on Science Education was appointed to cooperate on behalf of the Academy with the D. C. Council of Engineering and Architectural Societies in an effort to achieve in